

CLAIM LISTING

The claims in this claim listing supersede all previous versions of the claims.

1 - 43. (cancelled)

44. (currently amended) A cosmetic formulation consisting essentially of

(a) a vasodilating amount of a polymer having from 7 to 15 subunits, each subunit consisting of a member of the group selected from L-arginine and physiologically acceptable salts of L-arginine, wherein said polymer increases vasodilation and

(b) a cosmetically or dermatologically acceptable vehicle,

wherein the cosmetic formulation does not contain a therapeutic agent that is delivered by the polymer.

45. (previously presented) The cosmetic formulation according to claim 44 in which the polymer contains 7, 9, 11, 13 or 15 subunits.

46. (previously presented) The cosmetic formulation according to claim 44 in which the polymer contains 7, 9, 11, or 13 subunits.

47. (previously presented) The cosmetic formulation according to claim 44 in which the polymer contains 7 or 9 subunits.

48. (previously presented) The cosmetic formulation according to claim 44, wherein the cosmetic formulation is skin care composition, lip care composition, hair care composition, or dental care composition.
49. (previously presented) The cosmetic formulation according to claim 44, wherein the cosmetic formulation is a cream, lotion, solution, suspension, powder, emulsion, gel, waxy product, powder or solid.
50. (previously presented) The cosmetic formulation according to claim 44, wherein said cosmetic formulation is incorporated into a skin-cleansing preparation, soapless detergent, body lotion, emulsion, skin oil, peeling or scrub preparation, peeling mask, foam bath, bath milk, shower preparation, bath cube, bath salt, facial make-up, eyeshadow, mascara, eyeliner, eye cream, lipstick, lip gloss, lip contour pencil, nail polish, nail varnish, foot bath, foot powder, foot cream, foot balsam, callous-removing preparation, sun milk, sun lotion, sun cream, sun oil, sun block, pre-tanning preparation, after-sun preparation, self-tanning cream, toothpaste, tooth powder, gum treatment paste, gum treatment gel, gum rinse, shampoo, conditioner, styling cream, styling gel, hair rinse, foam, hairspray, hair dye or hair colorant.
51. (previously presented) The cosmetic formulation according to claim 44 in which the subunits are selected from L-arginine and L-arginine salts selected from the group consisting of L-arginine sulfate, hydrobromide, hydrochloride, sulfate, bisulfate, nitrate, acetate, oxalate, valerate, oleate, palmitate, stearate, laurate, borate, benzoate, lactate,

phosphate, tosylate, citrate, malcate, fumarate, succinate, tartrate, naphthylate, mesylate, glucoheptonate, lactobionate and laurylsulfonate; alkali and alkaline earth metal salts of L-arginine; and ammonium, quaternary ammonium and amine salts of L-arginine.

52. (previously presented) The cosmetic formulation according to claim 44, further containing one or more ingredients selected from antimicrobials, moisturizers and hydration agents, penetration agents, preservatives, emulsifiers, natural or synthetic oils, solvents, surfactants, detergents, gelling agents, emollients, antioxidants, fragrances, fillers, thickeners, waxes, odor absorbers, dyestuffs, coloring agents, powders, viscosity-controlling agents and water, and optionally including anesthetics, anti-itch actives, botanical extracts, conditioning agents, darkening or lightening agents, glitter, hair pigment additives, humectants, mica, minerals, polyphenols, silicones or derivatives thereof, sunblocks, vitamins, and phytomedicinals.
53. (previously presented) The cosmetic formulation according to claim 44, further containing one or more additional skin care, lip care, dental care or hair care active agents.
54. (previously presented) The cosmetic formulation according to claim 53 further containing one or more ingredients selected from anti-acne actives; anti-wrinkle, anti-skin atrophy and skin repair actives; skin barrier repair actives; non-steroidal cosmetic soothing actives; artificial tanning agents and accelerators; skin lightening actives; sunscreen actives; sebum stimulators; sebum inhibitors; anti-oxidants; protease inhibitors; skin

tightening agents; anti-itch ingredients; 5-alpha reductase inhibitors; desquamating enzyme enhancers; anti-glycation agents; and mixtures thereof.

55. (previously presented) The cosmetic formulation according to claim 44 in which the polymer further comprises a hydrophobic, hydrophilic, or amphipathic moiety, or a second polymer, linked or anchored to a terminal L-arginine subunit of the polymer.

56. (currently amended) A cosmetic formulation consisting essentially of

(a) a vasodilating amount of a polymer having from 7 to 15 subunits, each subunit consisting of a member of the group selected from L-arginine and physiologically acceptable salts of L-arginine, said polymer further consisting of one or more additional amino acids other than L-arginine, providing that the L-arginine subunits are contiguous and situated at either the C-terminus or the N-terminus of the polymer, wherein the polymer increases vasodilation, and

(b) a cosmetically or dermatologically acceptable vehicle,

wherein the cosmetic formulation does not contain a therapeutic agent that is delivered by the polymer.

57. (previously presented) The cosmetic formulation according to claim 56 in which the polymer contains 7, 9, 11, 13 or 15 contiguous L-arginine subunits.

58. (previously presented) The cosmetic formulation according to claim 56 in which the polymer contains 7, 9, 11, or 13 contiguous L-arginine subunits.

59. (previously presented) The cosmetic formulation according to claim 56 in which the polymer contains 7 or 9 contiguous L-arginine subunits.
60. (previously presented) The cosmetic formulation according to claim 56, wherein the cosmetic formulation is a skin care composition, lip care composition, hair care composition, or dental care composition.
61. (previously presented) The cosmetic formulation according to claim 56, wherein the cosmetic formulation is a cream, lotion, solution suspension, powder, emulsion, gel, waxy product, powder or solid.
62. (previously presented) The cosmetic formulation according to claim 56, wherein said cosmetic formulation is incorporated into a skin-cleansing preparation, soapless detergent, body lotion, emulsion, skin oil, peeling or scrub preparation, peeling mask, foam bath, bath milk, shower preparation, bath cube, bath salt, facial make-up, eyeshadow, mascara, eyeliner, eye cream, lipstick, lip gloss, lip contour pencil, nail polish, nail varnish, foot bath, foot powder, foot cream, foot balsam, callous-removing preparation, sun milk, sun lotion, sun cream, sun oil, sun block, pre-tanning preparation, after-sun preparation, self-tanning cream, toothpaste, tooth powder, gum treatment paste, gum treatment gel, gum rinse, shampoo, conditioner, styling cream, styling gel, hair rinse, foam, hairspray, hair dye ~~and~~ or hair colorant.

63. (previously presented) The cosmetic formulation according to claim 56 in which the L-arginine subunits are selected from L-arginine and L-arginine salts selected from the group consisting of L-arginine sulfate, hydrobromide, hydrochloride, sulfate, bisulfate, nitrate, acetate, oxalate, valerate oleate, palmitate, stearate, laureate, borate, benzoate, lactate, phosphate, tosylate, citrate, malate, fumarate, succinate, tartrate, naphthylate, mesylate, glucoheptonate, lactobionate and laurylsulfonate; alkali and alkaline earth metal salts of L-arginine; and ammonium, quaternary ammonium and amine salts of L-arginine.
64. (previously presented) The cosmetic formulation according to claim 56, further containing one or more additional skin care, lip care, dental care or hair care active agents.
65. (previously presented) The cosmetic formulation according to claim 64 further containing one or more active compounds selected from anti-acne actives; anti-wrinkle, anti-skin atrophy and skin repair actives; skin barrier repair actives; non-steroidal cosmetic soothing actives; artificial tanning agents and accelerators; skin lightening actives; sunscreen actives; sebum stimulators; sebum inhibitors; anti-oxidants; protease inhibitors; skin tightening agents; anti-itch ingredients; 5-alpha reductase inhibitors; desquamating enzyme enhancers; anti-glycation agents; and mixtures thereof.
66. (previously presented) The cosmetic formulation according to claim 56, further containing one or more ingredients selected from antimicrobials, moisturizers and

hydration agents, penetration agents, preservatives, emulsifiers, natural or synthetic oils, solvents, surfactants, detergents, gelling agents, emollients, antioxidants, fragrances, fillers, thickeners, waxes, odor absorbers, dyestuffs, coloring agents, powders, viscosity-controlling agents and water, and optionally including anesthetics, anti-itch actives, botanical extracts, conditioning agents, darkening or lightening agents, glitter, hair pigment additives, humectants, mica, minerals, polyphenols, silicones or derivatives thereof, sunblocks, vitamins, and phytomedicinals.

67. (previously presented) The cosmetic formulation according to claim 56 in which the polymer further comprises a hydrophobic, hydrophilic, or amphipathic moiety, or a second polymer, linked or anchored to a terminal L-arginine subunit of the polymer.

68. (previously presented) A method for ~~dilating blood vessels in a region of the body to achieve~~ achieving a cosmetic effect, ~~[[said]]~~ method comprising

identifying a region of the body in need of cosmetic enhancement; and

dilating blood vessels in the region of the body to achieve the cosmetic effect,

wherein the dilating step comprises topically applying a dilating effective amount of a composition to the region of the body in need of cosmetic enhancement, and

wherein the composition comprises ~~[[comprising]]~~ a polymer having from 7 to 15 subunits, each subunit consisting of a member of the group selected from L-arginine and physiologically acceptable salts of L-arginine, and ~~to the region of the body to achieve the cosmetic effect.~~

wherein the cosmetic effect is not promotion of hair regrowth.

69. (cancelled)
70. (currently amended) The method according to claim 68, wherein the cosmetic effect is selected from the group consisting of ~~[[prevention]]~~treatment of hair loss, promotion of hair regrowth, increase in length or thickness of eyelashes, and increase in length or thickness of eyebrows.
71. (previously presented) The method according to claim 68, wherein the cosmetic effect is the alleviation of signs of aging in skin.
72. (previously presented) The method according to claim 68, wherein the cosmetic effect is selected from the group consisting of increased lip plumpness, a change in lip color, and a change in lip contour.
73. (previously presented) The method according to claim 68 in which the composition is applied to enhance sensitivity of skin.
74. (previously presented) The method according to claim 68, wherein said cosmetic effect is the stabilization or remodeling of fat.
75. (previously presented) The method according to claim 68, wherein said cosmetic effect is the treatment of gum regression.

76. (previously presented) A method for ~~dilating blood vessels in a region of the body to~~ achieve a achieving a cosmetic effect, ~~[[said]]the~~ method comprising
- identifying a region of the body in need of cosmetic enhancement,
- dilating blood vessels in the region of the body to achieve the cosmetic effect,
- wherein the dilating step comprises topically applying a dilating effective amount of a composition comprising a polymer having from 7 to 15 subunits, each subunit consisting of a member of the group selected from L-arginine and physiologically acceptable salts of L-arginine, the polymer further consisting of one or more additional amino acids other than L-arginine, providing that the L-arginine subunits are contiguous and situated at either the C-terminus or the N-terminus of the polymer, and
- wherein the cosmetic effect is not promotion of hair regrowth. - to the region of
- the body to achieve the cosmetic effect.
77. (cancelled)
78. (previously presented) The method according to claim 76, wherein the cosmetic effect is selected from the group consisting of ~~[[prevention]]~~treatment of hair loss, promotion of hair regrowth, increase in length or thickness of eyelashes, and increase in length or thickness of eyebrows.
79. (previously presented) The method according to claim 76, wherein the cosmetic effect is the alleviation of signs of aging in skin.

80. (previously presented) The method according to claim 76, wherein the cosmetic effect is selected from the group consisting of increased lip plumpness, a change in lip color, and a change in lip contour.
81. (previously presented) The method according to claim 76 in which the composition is applied to enhance sensitivity of skin.
82. (previously presented) The method according to claim 76, wherein said cosmetic effect is the
83. (previously presented) The method according to claim 76, wherein said cosmetic effect is the treatment of gum regression.
84. (previously presented) The method according to claim 71, wherein said signs of skin aging are selected from the group consisting of textural discontinuities of the skin, loss of skin firmness, loss of skin tightness, loss of skin recoil, discoloration, blotching, sallowness, hyperpigmented skin regions, keratoses, abnormal differentiation, hyperkeratinization, elastosis, collagen breakdown of skin, and histological changes in the stratum corneum, dermis, epidermis, and skin vascular system.
85. (previously presented) The method according to claim 79, wherein said signs of skin aging are selected from the group consisting of textural discontinuities of the skin, loss of

skin firmness, loss of skin tightness, loss of skin recoil, discoloration, blotching, sallowness, hyperpigmented skin regions, keratoses, abnormal differentiation, hyperkeratinization, elastosis, collagen breakdown of skin, and histological changes in the stratum corneum, dermis, epidermis, and skin vascular system.